

APPENDIX F.
ES&H EVALUATION – 500A FORM

From: Ove Dyling Date: 4-5-01 Phone: 344-5297

Project Title: BNL Center for Functional Nanomaterials

Requester: Ove Dyling Building: New

Department: BES

Method of Funding: LI Job #9899 W.O. # _____ ILR# _____

To: **Review Team**

Title	Review Team (List Names As Applicable)	Sign After Completing Review	
		Signature	Date
Project Manager	Ove Dyling		
ES&H Project Review Coordinator	Richard J. Travis		
Facility Support Rep.	James Duman		
Dept./Div. ES&H Coordinator	Michael Zarcone, Ronald Gill		
EP Safety Professional	Patrica Bender		
EP Waste Management Rep	Gary Olsen		
Environmental Compliance Rep	Peter Pohlott		
Building Manager	N/A		
User Representative	John Taylor		
O&M General Supervisor	Christopher Johnson		

Project Description/Scope:

The project will construct a new two-story Laboratory/Office building of approximately 85,000 gross square feet north of Brookhaven Avenue near Building 725, and building 535. The facility will provide space for scientific staff from the Instrumentation Group, Physics, NSLS, Materials Science and Chemistry.

Method for ES&H Review (select one):

- ☒ Please attend review meeting to discuss proposed project and fill out form 500A. The Project Engineer has conducted an initial checkoff of ES&H items on the form (see backside) as a starting point for the meeting.
Meeting Date and Location: Project Coordination Conference Room "R" Bldg. 134c
if you cannot attend the review meeting, fill out this evaluation form and return to the Project Engineer.
- ☐ The Project Engineer has conducted an initial checkoff of ES&H items on the form (see backside) and has provided below a descriptive explanation of each safety item identified on the checklist. Please complete your evaluation, sign, and return to the Project Engineer by (date)_____.

Comments/Explanations/Added Concern – for each ES&H box checked:

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cc: Engineering & Design Supervisor, E&CS Manager, Project File No. _____
F&O EMS Management Representative

ES&H EVALUATION – 500A FORM

<p>ENVIRONMENTAL REVIEW</p> <p>■ NEPA Evaluation Required <i>NOTIFY T. SPERRY</i></p> <p><input type="checkbox"/> Non Rad. Emissions to the Atmosphere through a Ventilation System</p> <p><input type="checkbox"/> Radioactive Emissions</p> <p>■ Install/Modify a Wastewater System from Sanitary System, Floor Drains, or Cesspools, or Involves Discharge to a Stream or River, etc.</p> <p>■ Project Has Changes In Land Use</p> <p><input type="checkbox"/> Wetlands/Threatened Species</p> <p><input type="checkbox"/> Soil or ground water sampling needed to provide baseline</p> <p><input type="checkbox"/> Spill Prevention/Containment</p> <p>PCBs:</p> <p><input type="checkbox"/> Oil Filled Switches</p> <p><input type="checkbox"/> Ballasts <input type="checkbox"/> Spill Clean-up <i>COMPLY WITH EP-ES&H-604</i></p> <p><input type="checkbox"/> New Hazardous Machinery/Process</p> <p>MODIFICATION/INSTALLATION OF ENVIRONMENTAL SYSTEMS:</p> <p><input type="checkbox"/> Cesspools</p> <p><input type="checkbox"/> Diking</p> <p><input type="checkbox"/> Buried Tanks</p> <p><input type="checkbox"/> Water Effluents (other than sanitary)</p> <p><input type="checkbox"/> Changing Chemical Storage Tanks</p> <p><input type="checkbox"/> Changing Amount of Chemicals Stored</p> <p><input type="checkbox"/> Installing Compressed Gas Cylinders <i>NOTIFY PETER POHLOT ON ANY ENVIRONMENTAL REVIEW ITEMS</i></p> <hr/> <p>OPERATIONAL READINESS EVALUATION</p> <p>ORE needed due to mods, changes, or new construction for services or structures</p> <p>■ YES <input type="checkbox"/> NO (<i>NOTIFY J. CURTISS, SHSD</i>)</p> <hr/> <p>WASTE MANAGEMENT</p> <p><input type="checkbox"/> Haz. or Rad. Wastes Generated <i>NOTIFY T. GRIEVE, WMD</i></p> <p><input type="checkbox"/> Waste Minimization or Pollution Prevention Planning Needed</p> <p><i>NOTIFY G. GOODE, ESD</i></p> <p><input type="checkbox"/> Waste Generator:</p> <hr/> <p>RADIATION REVIEW</p> <p><input type="checkbox"/> Rad. Materials Will Be Used In Significantly Greater Quantities</p> <p><input type="checkbox"/> Existing Sources of Rad. Materials Will Be Moved to New Locations</p> <p><input type="checkbox"/> H.P. Coverage Required</p> <p><input type="checkbox"/> Work in Radiological Area (controlled) <i>NOTIFY FACILITY SUPPORT REP.</i></p> <p><input type="checkbox"/> Rad. Material/Rad. Sources/X-Ray Machines that are New to the Area</p> <p><i>HEALTH PHYSICS REVIEW REQUIRED</i></p> <p><input type="checkbox"/> Accountable Materials <i>NOTIFY K. DAHMS, SSD</i></p> <p><input type="checkbox"/> Criticality Review <i>NOTIFY J. CAREW, DAT</i></p> <p>RADIATION PROTECTION SYSTEMS:</p> <p><input type="checkbox"/> Radiation Alarms <input type="checkbox"/> Interlock Systems</p> <p>■ Shielding <i>HEALTH PHYSICS REVIEW REQUIRED</i></p>	<p>INDUSTRIAL HYGIENE ISSUES</p> <p><input type="checkbox"/> Animal Fecal Matter <i>COMPLY WITH EP-ES&H-203</i></p> <p><input type="checkbox"/> Confined Space <i>COMPLY WITH EP-ES&H-205</i></p> <p><input type="checkbox"/> Oxygen Deficiency Hazard</p> <p>ASBESTOS:</p> <p><input type="checkbox"/> Friable Asbestos Near Work</p> <p><input type="checkbox"/> Asbestos Removal Required to Perform Job</p> <p><input type="checkbox"/> Work In Crawl Space/Ceiling</p> <p>■ Wet Taps On Transite Pipes <i>NOTIFY R. SCHEIDET, EP ECS</i> <i>COMPLY WITH EP-ES&H-200</i></p> <p>LEAD:</p> <p><input type="checkbox"/> Paint Removal/Scraping</p> <p><input type="checkbox"/> Other Work Exposure To Lead <i>COMPLY WITH EP-ES&H-201</i></p> <p>FUMES/MIST/DUST GENERATION:</p> <p><input type="checkbox"/> Heavy Sanding <input type="checkbox"/> Spray Painting</p> <p><input type="checkbox"/> Abrasive Blasting <input type="checkbox"/> Epoxy/Oil Based Paint <i>RESPIRATORY PROTECTION REQUIRED</i></p> <p>CHEMICALS/SOLVENTS:</p> <p><input type="checkbox"/> Fume Hoods Modifications/Removal Check For Perchloric Acid</p> <p><input type="checkbox"/> Use Of Non-stock Chemicals/Solvents</p> <p><input type="checkbox"/> Haz. Materials Introduced or being relocated <i>NOTIFY J. DURMAN, RCD</i></p> <p>NOISE:</p> <p><input type="checkbox"/> Noise Hazard Area <i>HEARING PROTECTION AND MONITORING REQUIRED</i></p> <p>LASERS:</p> <p><input type="checkbox"/> Use Of New Laser <i>NOTIFY C. WEILANDICS, RCD</i></p> <hr/> <p>OPERATIONAL REQUIREMENTS</p> <p>■ As-built drawings required if modifications impact fire alarms, underground utilities, floor plan, utility plant systems or safety systems</p> <hr/> <p>FACILITY ISSUES</p> <p>STRUCTURES/SYSTEMS:</p> <p><input type="checkbox"/> Increase In Structural Loading</p> <p><input type="checkbox"/> Additional Noise or Vibration Sources</p> <p><input type="checkbox"/> Installation of New Crane</p> <p><input type="checkbox"/> Installation of Pressurized Systems <i>NOTIFY R. AIKMAN, EP ECS</i></p> <p>FACILITY USE:</p> <p>■ Impacts the Facility Use Agreement <i>NOTIFY BUILDING MANAGER</i></p> <p>DEMOLITION:</p> <p><input type="checkbox"/> Building <input type="checkbox"/> Load Bearing Element</p> <p><input type="checkbox"/> Legacy Problems (tanks, chemicals, etc.) <i>NOTIFY R. SCHEIDET, EP ECS and R. YADAV, EP IM</i></p> <p>SECURITY ISSUES:</p> <p><input type="checkbox"/> Property Protection Areas</p> <p><input type="checkbox"/> Security Clearances Required <i>NOTIFY G. GROSS, DO</i></p>	<p>INDUSTRIAL SAFETY ISSUES</p> <p>ELECTRICAL:</p> <p><input type="checkbox"/> Transformer Yard Design</p> <p><input type="checkbox"/> Non-Electricians In Transformer Yard</p> <p><input type="checkbox"/> Power Outages Impact Safety Systems</p> <p><input type="checkbox"/> Installation Of Electrical Services In Damp or Wet Environments</p> <p><input type="checkbox"/> Installation of Electrical Services In Flammable or Potentially Explosive Environments <i>NOTIFY J. CURTISS, SHSD</i></p> <p><input type="checkbox"/> Overhead Power Lines <i>COMPLY WITH EP-ES&H-701 & 702</i></p> <p>WORK ON ENERGIZED SYSTEMS:</p> <p><input type="checkbox"/> Electric (Range C and D) <i>WORKING HOT PERMIT REQUIRED</i></p> <p><input type="checkbox"/> Steam <input type="checkbox"/> Gas</p> <p><input type="checkbox"/> Hydraulic <input type="checkbox"/> Chemicals <i>COMPLY WITH EP-ES&H-103</i></p> <p>VEHICLE SAFETY:</p> <p>■ Work Interrupts Lab Traffic</p> <p><input type="checkbox"/> New Roads <input type="checkbox"/> Parking Lots <i>COMPLY WITH BNL ES&H 1.9.0 APP. A</i></p> <p>EXCAVATION/DRILLING/HEIGHTS:</p> <p>■ Working On Ledge Over 6' Off Ground <i>FALL PROTECTION REQUIRED</i></p> <p>■ Scaffolding Over Ten Feet <i>COMPLY WITH EP-ES&H-802</i></p> <p>■ Excavation/Trenching <i>COMPLY WITH EP-ES&H-801</i></p> <p>■ Drilling Into Concrete/Masonry <i>COMPLY WITH EP-ES&H-803</i></p> <p>FIRE PROTECTION:</p> <p>■ Impair Fire Protection Systems <i>COMPLY WITH EP-ES&H-401</i></p> <p><input type="checkbox"/> Modify Fire Protection Systems</p> <p>■ New Fire Alarm Systems/Panels</p> <p><input type="checkbox"/> Fire Walls</p> <p><input type="checkbox"/> Fire Dampers</p> <p><input type="checkbox"/> Adding/Removing Walls/Roofs</p> <p><input type="checkbox"/> Changing Egress (layout)</p> <p><input type="checkbox"/> Changing Travel Distances</p> <p><input type="checkbox"/> Increase Flammability of Interior Finish</p> <p><input type="checkbox"/> New Water Hookup Impacting Pressure</p> <p><input type="checkbox"/> New Experimental Equipment/Instruments Exceeding \$100K <i>NOTIFY J. LEVESQUE, SHSD</i></p> <p>MATERIAL HANDLING:</p> <p>■ Cranes/Rigging By Contractors <i>NOTIFY J. HYNAN, EP STQ</i></p> <hr/> <p>SAFETY REVIEW</p> <p><input type="checkbox"/> The Project Requires a SAR/SAD <i>NOTIFY T. MONAHAN, SHSD</i></p> <p><input type="checkbox"/> The Project Requires an Alteration of Established Radiation Guidelines <i>HEALTH PHYSICS REVIEW REQUIRED</i></p>
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